

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: 36335
4. Organization Name and Address: CAMTRONICS, LLC 122 W. Beechcraft Drive, Tulsa, OK 74132, Fax: 918/298-1060, 918/299-5148 (D8XR913Y)		5. Work Order/Contract/Invoice Number: 159688 / R377390
6. Item: 1	7. Description: TCAS ANTENNA	8. Part Number: 7514081-912
		9. Quantity: 1
		10. Serial Number: ANE44969
		11. Status/Work: OVERHAULED
12. Remarks: TCAS ANTENNA was Overhauled I/A/W Manual # CAM-4081, Revision # E Revision Date 22/Nov/2019 The work performed (see block 11) was accomplished IAW the noted / applicable CMM or other approved FAA data. The work order (see block 5) describing the work performed is on file at this repair station.		
Certifies that the work specified in block 11 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number: EASA 145.6181		
13a. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in condition for safe operation. ☐ Non-approved design data specified in Block 12.		
13b. Authorized Signature:	13c. Approval/Authorization No.:	14a. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.
		14b. Authorized Signature: <i>David Kozlowski</i>
13d. Name (Typed or Printed)	13e. Date (dd/mm/yyyy):	14c. Approval/Certificate No.: D8XR913Y
		14d. Name: (Typed or Printed) *DAVID KOZLOWSKI
		14e. Date (dd/mm/yyyy): 18/May/2021
User/Installer Responsibilities		
It is important to understand that the existence of this Document alone does not automatically constitute authority to install the aircraft/engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1, it is essential that the user/installer ensures that his/her Airworthiness Authority accepts aircraft engine(s)/propeller(s)/article(s) from the Airworthiness Authority of the country specified in block 1. Statements in block 13a and 14a do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flown.		

TEARDOWN REPORT

Page No. 1

CAMTRONICS, LLC

122 W. Beechcraft Drive

Tulsa, OK 74132

Fax: 918/298-1060

918/299-5148

FAA CRS No: D8XR913Y

WORK ORDER: 159688-20

Customer: AJW / AJ WALTER AVIATION LTD

Dept#:TCA

Location:007

Cust RO#: R377390

Warranty Code:00 / 0

Mfg: ACSS

Tail:

Goodthru AD#:

Outgoing 7514081-912 / TCAS ANTENNA

S/N: ANE44969

Ops: Y

Manual#: CAM-4081 RevDate: 22/Nov/2019 Rev#: E

Reason/Rm:

PAINT DAMAGE

Date Recvd: 03/Sep/2020 Date Reqr'd: 27/May/2021 Date Estmtd: 27/May/2021

PRELIMINARY INSPECTION: DATE: INSPECTOR:

WORN/DIRTY/BAD PAINT

ERODED

8 SCREWS CAME WITH UNIT

PRE TEST (Yes/No): Y DATE: 03/Sep/2020 TECH: *Kelsey Perrin

UNIT FAILED FUNCTIONAL TESTING IAW RS-DER CAM-4081

HIDDEN DAMAGE:

TEARDOWN FINDINGS:

1. Initial Inspection: CL

- Unit arrived in the following condition.
- Worn Exterior radome and paint.
- Inspected IAW RS-DER CAM-4081

2. Pre-Test performed by: CL

- RX Receive Test 1090- Radiation Pattern
 - Failed Crossover requirement.
- TX Transmit Test 1030- Radiation Pattern
 - Failed power level requirement (high VSWR reading).
- Resistance Testing (J1 thru J4)
Connector/ Resistance/ Results/ Acceptable Range
 - J1: 1010 Pass 850-1200 Ohms

Printed 18/May/2021

16:15:53

QUALITY-1

Labor Task Control#

wopstm

CAMTRONICS, LLC

122 W. Beechcraft Drive

Tulsa, OK 74132

Fax: 918/298-1060

918/299-5148

TEARDOWN REPORT

Page No. 2



FAA CRS No: D8XR913Y

WORK ORDER: 159688-20

Customer: AJW / AJ WALTER AVIATION LTD

Cust RO#: R377390

Mfg: ACSS

Outgoing 7514081-912 / TCAS ANTENNA

Dept#:TCA

Location:007

Warranty Code: 00 / 0

Goodthru AD#:

Ops: Y

Tail:

S/N: ANE44969

TEARDOWN FINDINGS:

- J2: 8070 Pass 6500-9950 Ohms
- J3: 4023 Pass 3250-4950 Ohms
- J4: 2000 Pass 1650-2450 Ohms

- All Testing performed IAW RS-DER CAM-4081

3. Evaluated by: CL

- Unit will require the following maintenance for return to service.
- Replacement/repair of defective components consisting of :
 - Radome and radiating elements replacement.
 - PCB inspection and repair
 - Adapter plate replacement
 - O-ring & round Teflon gasket
 - Paint and bodywork.
 - Placarding.

4. Corrective Action: JMM

- Unit received the following repair IAW CAM-4081 and CAM-4081-REP.
 - Radome and radiating elements replaced.
 - PCB inspected and repaired.
 - Adapter plate replaced.
 - Bodywork, paint, and placarding performed.
 - O-ring and gasket (if applicable) replaced.

Note: Ref the work order BOM for a complete listing of replacement parts.

5. Final Testing: MG

- RX Receive Test 1090- Radiation Pattern
- Passed



CAMTRONICS, LLC

122 W. Beechcraft Drive

Tulsa, OK 74132

Fax: 918/298-1060

918/299-5148

TEARDOWN REPORT

Page No. 3



FAA CRS No: D8XR913Y

WORK ORDER: 159688-20

Customer: AJW / AJ WALTER AVIATION LTD

Cust RO#: R377390

Mfg: ACSS

Outgoing 7514081-912 / TCAS ANTENNA

Dept#:TCA

Location:007

Warranty Code: 00 / 0

Goodthru AD#:

Tail:

S/N: ANE44969

Ops: Y

TEARDOWN FINDINGS:

- TX Transmit Test 1030- Radiation Pattern
 - Passed
- Resistance Testing (J1 thru J4)
Connector/ Resistance/ Results/ Acceptable Range
 - J1: 996 Ohms Pass 850-1200 Ohms
 - J2: 8060 Ohms Pass 6500-9950 Ohms
 - J3: 4012 Ohms Pass 3250-4950 Ohms
 - J4: 1995 Ohms Pass 1650-2450 Ohms
- Unit assembled, overhauled and tested IAW
RS-DER CAM-4081/CAM-4081-REP and is considered
ready for return to service.

Note: Antenna has minor damage caused by tooling on the adapter plate on the Aft left mounting hole. This will not affect the fit, form or function of the unit.

MODIFICATION/SERVICE BULLETINS:

None.

Final Inspection:*DAVID KOZLOWSKI

DATE: 18/May/2021

O/A PARTS DETAIL:

Line#	Part Number/Description	W	CD	RmvCde	Qty	Serial Number
1	04970					
	GREEN EPOXY PRIMER 2 G KI N NE				4.00	
2	2625-1					
	INSERT (ALT AVA)	N	NE		4.00	
3	ANTENNA PAINT (WHITE)					
	ANTENNA PAINT 4 OZ PER UN N NE				1.00	
4	CAM-4081-005					
	RADOME ASSY	N	NE		1.00	
5	CAM-4081-200					
	INTERNAL GROUND PLANE	N	NE		1.00	

Printed 18/May/2021

16:15:53

QUALITY-1

Labor Task Control#



wopstm

CAMTRONICS, LLC

122 W. Beechcraft Drive

Tulsa, OK 74132

Fax: 918/298-1060

918/299-5148

TEARDOWN REPORT

Page No. 4



FAA CRS No: D8XR913Y

WORK ORDER: 159688-20

Customer: AJW / AJ WALTER AVIATION LTD

Cust RO#: R377390

Mfg: ACSS

Outgoing 7514081-912 / TCAS ANTENNA

Dept#:TCA

Location:007

Warranty Code: 00 / 0

Goodthru AD#:

Tail:

S/N: ANE44969

Ops: Y

6 CAM-4081-912		
ADAPTER PLATE	N NE	1.00
7 CAM-7017701		
ROUND TEFLON ANTENNA GASK	N NE	1.00
8 MMS420-17925		
MIL-PRF-85285E ZENTHANE (A	N NE	4.00
9 NAS1611-240		
O-RING, TCAS ANTENNA (ALT)	N NE	1.00

